Changed the margins in cases where the sequence text was 'wrapped' down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted: non-ASCII 'garbage' at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20	All Number: Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically: Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as secretary initials/filename at end of file; secretary initials/filename		#32/600
Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was	Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII 'garbage' at the beginning/end of files; secretary initials/filename at end of file; naserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 200 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 1600 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stog coden in armigo acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:		er: 09/147,405B SNTSD Edited by:
Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted syra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII garbage at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be defeted. Deleted ending stog codon in armino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII garbage at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 200 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 1600 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stog codon in arrigo acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Chan	ged the margins in cases where the sequence text was "wrapped" down to the next line.
Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending sto's codon in arrigin acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as secretary initials/filename at end of file; secretary in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 200 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 1600 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armon acid sequences and adjusted the "(A)Length;" field accordingly (error due to a Patentin bug). Sequences corrected:	Edited	d a format error in the Current Application Data section, specifically:
Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in arrifine acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid lext, such as Secretary initials/filename at end of file; Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 200 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armon acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Editec	the Current Application Data section with the actual current number. The number inputted by the ant was the prior application data; or other
Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: Deleted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in arrigin acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII *garbage* at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 200 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 1600 A *Hard Page Break* code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armon acid sequences and adjusted the *(A)Length:* field accordingly (error due to a Patentin bug). Sequences corrected:	Addec	d the mandatory heading and subheadings for "Current Application Data".
Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII 'garbage' at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as secretary initials/filename at end of file; Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armago acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII *garbage* at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as secretary initials/filename at end of file; Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A *Hard Page Break* code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in arrigin acid sequences and adjusted the *(A)Length:* field accordingly (error due to a Patentin bug). Sequences corrected:	Edited	I the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file;	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; secretary numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in ampo acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Chang	ged the spelling of a mandatory field (the headings or subheadings), specifically:
Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as respectively. Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted endIng stop codon in arrigin acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as respectively. Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armon acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Сопес	cted the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armon acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII *garbage* at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 200 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 1600 A *Hard Page Break* code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in artifico acid sequences and adjusted the *(A)Length:* field accordingly (error due to a Patentin bug). Sequences corrected:	Inserte	ed or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
Deleted: non-ASCII *garbage* at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A *Hard Page Break* code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in artifio acid sequences and adjusted the *(A)Length:* field accordingly (error due to a Patentin bug). Sequences corrected:	Deleted: non-ASCII *garbage* at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 200 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 1600 A *Hard Page Break* code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in artifio acid sequences and adjusted the *(A)Length: *field accordingly (error due to a Patentin bug). Sequences corrected:	applica	cted subheading placement. All responses must be on the same line as each subheading. If the ant placed a response below the subheading, this was moved to its appropriate place.
Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in arripo acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: TECH CENTER 1600 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in arrifino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Delete	ed extra, invalid, headings used by an applicant, specifically:
Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 200 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 1600 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Delet	ted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; bage numbers throughout text; other invalid text, such as
Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 160 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Edited identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 200 Corrected an error in the Number of Sequences field, specifically: TECH CENTER 1600 A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Inser	ted mandatory headings, specifically:
Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in arrifino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in arrigino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Сопе	ected an obvious error in the response, specifically:
A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in armo acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Edite	d identifiers where upper case is used but lower case is required, or vice versa. FEB 1 9 20
Deleted <i>ending</i> stop codon in antino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Deleted ending stop codon in antino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	Corre	ected an error in the Number of Sequences field, specifically: TECH CENTER 160
due to a Patentin bug). Sequences corrected:	due to a Patentin bug). Sequences corrected:	A *Ha	ard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
Other: Seg. 15- corrected amino acid rumbering	Other: leg. 15- corrected amino acid runbering	Deleter	d endIng stop codon in amigo acid sequences and adjusted the "(A)Length:" field accordingly (error a PatentIn bug). Sequences corrected:
-	0		" Seg. 15 - corrected amino acid rumbering

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

32



1600

RAW SEQUENCE LISTING DATE: 02/12/2003 PATENT APPLICATION: US/09/147,405B TIME: 18:36:20

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02112003\I147405B.raw

```
3 <110> APPLICANT: Guss, Bengt
              Nilsson, Martin
      5
              Frykberg, Lars
             Flock, Jan-Ingmar
             Lindberg, Martin
      9 <120> TITLE OF INVENTION: Fibrinogen Binding Protein Originating from
            Coagulase-Negative Staphylococcus
     10
     12 <130> FILE REFERENCE: guss 09/147405
     14 <140> CURRENT APPLICATION NUMBER: 09/147405B
C--> 15 <141> CURRENT FILING DATE: 1999-04-11
     17 <150> PRIOR APPLICATION NUMBER: PCT/SE97/10191
     18 <151> PRIOR FILING DATE: 1997-06-18
     20 <150> PRIOR APPLICATION NUMBER: SE 9602496-3
     21 <151> PRIOR FILING DATE: 1996-06-20
     23 <160> NUMBER OF SEQ ID NOS: 15
     25 <170> SOFTWARE: PatentIn Ver. 2.0
     27 <210> SEQ ID NO: 1
     28 <211> LENGTH: 20
     29 <212> TYPE: DNA
     30 <213> ORGANISM: Artificial Sequence
     32 <220> FEATURE:
     33 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
     35 <400> SEQUENCE: 1
                                                                           20
     36 caacaaccat ctcacacaac
     39 <210> SEQ ID NO: 2
     40 <211> LENGTH: 22
     41 <212> TYPE: DNA
     42 <213> ORGANISM: Artificial Sequence
     44 <220> FEATURE:
     45 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
     47 <400> SEQUENCE: 2
                                                                           22
     48 catcaaattg atatttccca tc
     51 <210> SEQ ID NO: 3
     52 <211> LENGTH: 18
     53 <212> TYPE: DNA
     54 <213> ORGANISM: Staphylococcus epidermidis
     56 <220> FEATURE:
     57 <221> NAME/KEY: variation
     58 <222> LOCATION: (3)
     59 <223> OTHER INFORMATION: n is c or t
     61 <220> FEATURE:
     62 <221> NAME/KEY: variation
     63 <222> LOCATION: (6)
```

DATE: 02/12/2003

PATENT APPLICATION: US/09/147,405B TIME: 18:36:20 Input Set : A:\PTO.AMC.txt Output Set: N:\CRF4\02112003\I147405B.raw 64 <223> OTHER INFORMATION: n is ϵ , t, a, or g 66 <220> FEATURE: 67 <221> NAME/KEY: variation 68 <222> LOCATION: (9) 69 <223> OTHER INFORMATION: n is c or t 71 <220> FEATURE: 72 <221> NAME/KEY: variation 73 <222> LOCATION: (12) 74 <223> OTHER INFORMATION: n is c, t, a, or g 76 <220> FEATURE: 77 <221> NAME/KEY: variation 78 <222> LOCATION: (15) 79 <223> OTHER INFORMATION: n is c or t 81 <220> FEATURE: 82 <221> NAME/KEY: variation 83 <222> LOCATION: (18) 84 <223> OTHER INFORMATION: n is c or t 86 <400> SEQUENCE: 3 W--> 87 gantengant enganagn 18 90 <210> SEQ ID NO: 4 91 <211> LENGTH: 19 92 <212> TYPE: DNA 93 <213> ORGANISM: Artificial Sequence 95 <220> FEATURE: 96 <223> OTHER INFORMATION: Description of Artificial Sequence: primer 98 <400> SEQUENCE: 4 99 aggtcaagga caaggtgac 19 102 <210> SEQ ID NO: 5 103 <211> LENGTH: 21 104 <212> TYPE: DNA 105 <213> ORGANISM: Artificial Sequence 107 <220> FEATURE: 108 <223> OTHER INFORMATION: Description of Artificial Sequence: primer 110 <400> SEQUENCE: 5 111 ccgatgaaaa tggaaagtat c 21 114 <210> SEQ ID NO: 6 115 <211> LENGTH: 21 116 <212> TYPE: DNA 117 <213> ORGANISM: Artificial Sequence 119 <220> FEATURE: 120 <223> OTHER INFORMATION: Description of Artificial Sequence: primer 122 <400> SEQUENCE: 6 21 123 tccgttatct atactaaagt c 126 <210> SEQ ID NO: 7 127 <211> LENGTH: 21 128 <212> TYPE: DNA 129 <213> ORGANISM: Artificial Sequence 131 <220> FEATURE: 132 <223> OTHER INFORMATION: Description of Artificial Sequence: primer

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 02/12/2003 PATENT APPLICATION: US/09/147,405B TIME: 18:36:20

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\02112003\I147405B.raw

134 <400> SEQUENCE: 7 135 actgatcatg atgactttag t	21
138 <210> SEQ ID NO: 8	21
139 <211> LENGTH: 32	
140 <212> TYPE: DNA	
141 <213> ORGANISM: Artificial Sequence	
143 <220> FEATURE:	
144 <223> OTHER INFORMATION: Description of Artificial Sequence: pri	mer
144 <223 OTHER INFORMATION. Description of Artificial Sequence. pri	.mer
140 SEQUENCE: 0 147 qcqqatccaa tcaqtcaata aacaccgacg at	32
150 <210> SEQ ID NO: 9	32
151 <211> LENGTH: 32	
151 <211 BENGTH. 52 152 <212> TYPE: DNA	
153 <213> ORGANISM: Artificial Sequence	
155 <220> FEATURE:	
155 <220 FEATURE: 156 <223 OTHER INFORMATION: Description of Artificial Sequence: pri	mor
158 <400> SEQUENCE: 9	mer
-	32
159 cggaattetg tteggaetga tttggaagtt ee 162 <210> SEQ ID NO: 10	32
162 <210 SEQ 15 NO: 10 163 <211> LENGTH: 1781	
164 <212> TYPE: DNA	
165 <213> ORGANISM: Staphylococcus epidermidis	
167 <220> FEATURE:	
167 <2207 FEATURE: 168 <221> NAME/KEY: CDS	
166 <221 NAME/REI. CDS 169 <222> LOCATION: (3)(1781)	
171 <400> SEQUENCE: 10	
1/1 /400/ 3EQUENCE: 10	
172 ac cac cac cac cac cac cac ccc tct act cat ca	47
172 ac cac cac cac cac cac ccc tct agt gat gaa gaa aag aat gat	47
173 His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp	47
173 His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15	
173 His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat cag tca ata aac acc gac gat aat aac caa ata	47 95
His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile	
His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30	95
His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca	
His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser	95
His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 45	95 143
His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 45 184 gaa gat aga aca gag tca aca aca aca ata gat gat gaa aac gaa gca aca	95
His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 45 184 gaa gat aga aca gag tca aca aca aat gta gat gaa aac gaa gca aca 185 Glu Asp Arg Thr Glu Ser Thr Thr Asn Val Asp Glu Asn Glu Ala Thr	95 143
His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 45 184 gaa gat aga aca gag tca aca aca aat gta gat gaa aac gaa gca aca 185 Glu Asp Arg Thr Glu Ser Thr Thr Asn Val Asp Glu Asn Glu Ala Thr 186 50 55 60	95 143 191
173 His His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 45 184 gaa gat aga aca gag tca aca aca aca aca gat gat gaa aac gaa gca aca 185 Glu Asp Arg Thr Glu Ser Thr Thr Asn Val Asp Glu Asn Glu Ala Thr 186 50 55 60 188 ttt tta caa aag acc cct caa gat aat act cat ctt aca gaa gaa gag	95 143
173 His His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 45 184 gaa gat aga aca gag tca aca aca aca act gta gat gaa aac gaa gca aca 185 Glu Asp Arg Thr Glu Ser Thr Thr Asn Val Asp Glu Asn Glu Ala Thr 186 50 55 60 188 ttt tta caa aag acc cct caa gat aat act cat ctt aca gaa gaa gag 189 Phe Leu Gln Lys Thr Pro Gln Asp Asn Thr His Leu Thr Glu Glu Glu	95 143 191
His His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174	95 143 191 239
His His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 45 184 gaa gat aga aca gag tca aca aca act gat gat gaa aac gaa gca aca 185 Glu Asp Arg Thr Glu Ser Thr Thr Asn Val Asp Glu Asn Glu Ala Thr 186 50 55 60 188 ttt tta caa aag acc cct caa gat aat act cat ctt aca gaa gag 189 Phe Leu Gln Lys Thr Pro Gln Asp Asn Thr His Leu Thr Glu Glu Glu 190 65 70 75 192 gta aaa gaa tcc tca tca gtc gaa tcc tca aat tca att gat act	95 143 191
His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174	95 143 191 239
173 His His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 184 gaa gat aga aca gag tca aca aca aca aca gat gat gaa aac gaa gca aca 185 Glu Asp Arg Thr Glu Ser Thr Thr Asn Val Asp Glu Asn Glu Ala Thr 186 50 55 188 ttt tta caa aag acc cct caa gat aat act cat ctt aca gaa gaa gag 189 Phe Leu Gln Lys Thr Pro Gln Asp Asn Thr His Leu Thr Glu Glu Glu 190 65 70 75 75 192 gta aaa gaa tcc tca tca tca gtc gaa tcc tca aat tca tca att gat act 193 Val Lys Glu Ser Ser Ser Val Glu Ser Ser Asn Ser Ser Ile Asp Thr 194 80	95 143 191 239 287
His His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174	95 143 191 239
173 His His His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 45 184 gaa gat aga aca gag tca aca aca aat gta gat gaa aac gaa gca aca 185 Glu Asp Arg Thr Glu Ser Thr Thr Asn Val Asp Glu Asn Glu Ala Thr 186 50 55 60 188 ttt tta caa aag acc cct caa gat aat act cat ctt aca gaa gaa gag 189 Phe Leu Gln Lys Thr Pro Gln Asp Asn Thr His Leu Thr Glu Glu Glu Glu 190 65 70 75 192 gta aaa gaa tcc tca tca tca gtc gaa tcc tca aat tca tca att gat act 193 Val Lys Glu Ser Ser Ser Ser Val Glu Ser Ser Asn Ser Ser Ile Asp Thr 194 80 85 90 95 196 gcc caa caa caa caa cca tct cac aca aca a	95 143 191 239 287
173 His His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174	95 143 191 239 287 335
173 His His His His His His His His Pro Ser Ser Asp Glu Glu Lys Asn Asp 174 1 5 10 15 176 gtg atc aat aat aat cag tca ata aac acc gac gat aat aac caa ata 177 Val Ile Asn Asn Asn Asn Gln Ser Ile Asn Thr Asp Asp Asn Asn Gln Ile 178 20 25 30 180 att aaa aaa gaa gaa acg aat acg aat aac tac gat ggc ata gaa aaa cgc tca 181 Ile Lys Lys Glu Glu Thr Asn Asn Tyr Asp Gly Ile Glu Lys Arg Ser 182 35 40 45 184 gaa gat aga aca gag tca aca aca aat gta gat gaa aac gaa gca aca 185 Glu Asp Arg Thr Glu Ser Thr Thr Asn Val Asp Glu Asn Glu Ala Thr 186 50 55 60 188 ttt tta caa aag acc cct caa gat aat act cat ctt aca gaa gaa gag 189 Phe Leu Gln Lys Thr Pro Gln Asp Asn Thr His Leu Thr Glu Glu Glu Glu 190 65 70 75 192 gta aaa gaa tcc tca tca tca gtc gaa tcc tca aat tca tca att gat act 193 Val Lys Glu Ser Ser Ser Ser Val Glu Ser Ser Asn Ser Ser Ile Asp Thr 194 80 85 90 95 196 gcc caa caa caa caa cca tct cac aca aca a	95 143 191 239 287

RAW SEQUENCE LISTING DATE: 02/12/2003 PATENT APPLICATION: US/09/147,405B TIME: 18:36:20

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02112003\I147405B.raw

202				116					120					105			
202				115			t	~~~	120	~~+		~~~	~~~	125	2.0±	2+2	431
						aac											431
	гуѕ	тте	_	GIU	ser	Asn	IUT		Ser	СТЙ	ьуѕ	GIU		ASII	1111	116	
206			130					135					140			4-4	470
						gta											479
	Glu		Pro	Asn	гàг	Val		GIU	Asp	Ser	Thr		ser	GIN	Pro	ser	
210		145					150					155					r 0.7
						gat	_						_				527
	_	Tyr	Thr	Asn	lle	Asp	Glu	Lys	lle	Ser		GIn	Asp	GLu	Leu		
	160					165					170					175	535
						gaa											575
	Asn	Leu	Pro	Ile		Glu	Tyr	GLu	Asn		Ala	Arg	Pro	Leu		Thr	
218	•				180					185					190		600
						tcg											623
	Thr	Ser	Ala		Pro	Ser	lle	ьуs	_	Val	Thr	Val	Asn		Leu	Ala	
222			١.	195					200					205			671
						aat,											671
	Ala	Glu		Gly	Ser	Asn	Val		His	Leu	Ile	Lys		Thr	Asp	GIn	
226			210					215					220				= 4.0
						tat											719
	Ser		Thr	Glu	Gly	Tyr	_	Asp	Ser	Glu	Gly		Ile	Lys	Ala	His	
230		225					230					235					
						atc											767
	_	Ala	Glu	Asn	Leu	Ile	Tyr	Asp	Val	Thr		Glu	Val	Asp	Asp		
	240					245					250					255	015
					_	acg	_			_		_	_				815
	Val	Lys	Ser	Gly		Thr	Met	Thr	Val	_	Ile	Asp	Lys	Asn		Val	
238					260					265					270		0.60
						gat											863
	Pro	Ser	Asp		Thr	Asp	Ser	Phe		He	Pro	ГÀЗ	ile	_	Asp	Asn	
242				275					280					285			011
						gct											911
	Ser	Gly		TTE	TTE	Ala	Thr	_	Thr	Tyr	Asp	Asn	_	Asn	гуѕ	GIN .	•
246			290					295					300				0.5.0
						aca											959
	тте		Tyr	Thr	rne	Thr		Tyr	vaı	Asp	гàг		GIU	Asn	ire	гуѕ	
250		305			4. 4		310		- 4- 4-			315					1007
						acg											1007
		Hls	ьeu	гàг	Leu	Thr	ser	Tyr	TTE	Asp	_	ser	ьys	val	Pro		
	320					325					330		_ 4_ 4_			335	1055
						gat											1055
	Asn	Asn	Thr	ьуs		Asp	vaı	GIU	Tyr		Thr	Ата	Leu	Ser		vaı	
258					340					345	4_				350		1100
						gtt											1103
	Asn	ьуs	Thr		Thr	Val	GLu	Tyr		Arg	Pro	Asn	GLu		Arg	Tnr	
262				355					360					365			1153
						atg											1151
	Ala	Asn		GIn	Ser	Met	Phe		Asn	тте	Asp	Thr	-	Asn	HIS	ınr	
266			370					375					380				

RAW SEQUENCE LISTING DATE: 02/12/2003 PATENT APPLICATION: US/09/147,405B TIME: 18:36:20

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02112003\I147405B.raw

	_			_							_		tca	-	-		1199
	Val		Gln	Thr	Ile	Tyr		Asn	Pro	Leu	Arg	_	Ser	Ala	Lys	Glu	
270		385					390					395					1047
													tca				1247
		Asn	Val	Asn	тте		GTĀ	Asn	GLY	Asp		GTA	Ser	Thr	тте		
	400					405					410	~~~	~~+	+		415	1205
	-	_	_					-		_	_		gat				1295
	Asp	Asp	ser	Inr	420	тте	ьуѕ	vaı	TÀT	125	vaı	сту	Asp	ASII	430	ASII	
278	++-	222	~ a t	2 art		202	a++	+ - +	ant.		2 at	~~~	+ ~+	<i>~</i> ~ ~		at a	1343
			_	_		-			_		_	_	tat Tyr	_	_	-	1343
282	ьеи	FIO	ASP	435	ASII	Arg	TTE	тут	440	тут	Ser	GIU	туг	445	лэр	Val	
	202	22+	ast		tat	acc	C22	t+=	•	aat	aat	aat	gat		aat	att	1391
			_	_		-							Asp				1331
286	1111	17011	450	1301	r 3 =	1110	OZII	455	O = y				460	• • • •	11011	110	
	aat	t++		aat	ata	gat	tca		tat	att	att	aaa	gtt	att	aαt.	aaa	1439
													Val				
290		465	<u>1</u>				470		-1-			475					
292	tat	gac	cct	aat	aag	gat	gat	tac	acg	act	ata	cag	caa	act	gtg	aca	1487
293	Tyr	Asp	Pro	Asn	Lys	Asp	Asp	Tyr	Thr	Thr	Ile	Gln	Gln	Thr	Val	Thr	
294	480					485					490					495	
296	atg	cag	acg	act	ata	aat	gag	tat	act	ggt	gag	ttt	aga	aca	gca	tcc	1535
297	Met	Gln	Thr	Thr	Ile	Asn	Glu	Tyr	Thr	Gly	Glu	Phe	Arg	Thr	Ala	Ser	
298					500					505					510		
													caa				1583
	Tyr	Asp	Asn		Ile	Ala	Phe	Ser		Ser	Ser	Gly	Gln		Gln	Gly	
302				515					520					525			1.601
													tac				1631
	Asp	ьeu		Pro	GIU	ьys	Thr	_	гаг	тте	СТА	Asp	Tyr 540	vaı	rrp	GLU	
306	ant.	at a	530	222	ant.	aat	a++	535	22+	202	22+	ant.	aat	<i>α</i>	222	cca	1679
													Asn				1019
310	дар	545	лэр	шуз	изр	СТУ	550	GIII	ASII	1111	7311	555	ASII	Olu	цуз	110	
	ctt		aat	ata	tta	αta		tta	acq	tat	cct		gga	act	tca	aaa	1727
		_		_	_	-		-	_			_	Gly				
	560	001				565				-1-	570	F	~_1			575	
		atc	aσa	aca	gat		gat	aaa	aaa	tat		ttt	gat	aga	ata		1775
		_	_		-	_	_						Ásp			_	
318			_		580		•	-	-	585			-	-	590		
	gtc	gac															1781
	Val	-															
		_	EQ II	ON C	: 11												
325	<211	l> LF	ENGT	H: 59	93												
326	<212	2> T	YPE:	PRT													
327	<213	3> OF	RGAN:	ISM:	Stap	ohylo	ococo	cus e	epide	ermio	dis						
			13UQ3														
		His	His	His	His	His	Pro	Ser	Ser	Asp	Glu	Glu	Lys	Asn		Val	
331	1				5					10					15		
333	Ile	Asn	Asn	Asn	Gln	Ser	Ile	Asn	Thr	Asp	Asp	Asn	Asn	Gln	Ile	Ile	

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/12/2003 PATENT APPLICATION: US/09/147,405B TIME: 18:36:21

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02112003\I147405B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 3,6/9,12,15,18

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

```
Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39
Seq#:2; Line(s) 40,41,42,43,44,45,46,47,48,49,50,51
Seq#:3; Line(s) 52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71
Seq#:3; Line(s) 72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90
Seq#:4; Line(s) 91,92,93,94,95,96,97,98,99,100,101,102
Seq#:5; Line(s) 103,104,105,106,107,108,109,110,111,112,113,114
Seq#:6; Line(s) 115,116,117,118,119,120,121,122,123,124,125,126
Seq#:7; Line(s) 127,128,129,130,131,132,133,134,135,136,137,138
Seq#:8; Line(s) 139,140,141,142,143,144,145,146,147,148,149,150
Seq#:9; Line(s) 151,152,153,154,155,156,157,158,159,160,161,162
Seq#:10; Line(s) 163,164,165,166,167,168,169,170,171,172,173,174,175,176
Seq#:10; Line(s) 177,178,179,180,181,182,183,184,185,186,187,188,189,190
Seq#:10; Line(s) 191,192,193,194,195,196,197,198,199,200,201,202,203,204
Seq#:10; Line(s) 205,206,207,208,209,210,211,212,213,214,215,216,217,218
Seq#:10; Line(s) 219,220,221,222,223,224,225,226,227,228,229,230,231,232
Seq#:10; Line(s) 233,234,235,236,237,238,239,240,241,242,243,244,245,246
Seq#:10; Line(s) 247,248,249,250,251,252,253,254,255,256,257,258,259,260
Seq#:10; Line(s) 261,262,263,264,265,266,267,268,269,270,271,272,273,274
Seq#:10; Line(s) 275,276,277,278,279,280,281,282,283,284,285,286,287,288
Seq#:10; Line(s) 289,290,291,292,293,294,295,296,297,298,299,300,301,302
Seq#:10; Line(s) 303,304,305,306,307,308,309,310,311,312,313,314,315,316
Seq#:10; Line(s) 317,318,319,320,321,322,323,324
Seq#:11; Line(s) 325,326,327,328,329,330,331,332,333,334,335,336,337,338
Seq#:11; Line(s) 339,340,341,342,343,344,345,346,347,348,349,350,351,352
Seq#:11; Line(s) 353,354,355,356,357,358,359,360,361,362,363,364,365,366
Seq#:11; Line(s) 367,368,369,370,371,372,373,374,375,376,377,378,379,380
Seq#:11; Line(s) 381,382,383,384,385,386,387,388,389,390,391,392,393,394
Seq#:11; Line(s) 395,396,397,398,399,400,401,402,403,404,405,406,407,408
Seq#:11; Line(s) 409,410,411,412,413,414,415,416,417,418,419,420,421,422
Seq#:11; Line(s) 423,424,425,426,427,428,429,430,431,432,433,434,435,436
Seq#:11; Line(s) 437,438,439,440,441,442,443,444,445
Seq#:12; Line(s) 446,447,448,449,450,451,452,453,454,455,456,457,458,459
Seq#:12; Line(s) 460,461,462,463,464,465,466,467,468,469,470,471,472,473
Seq#:12; Line(s) 474,475,476,477,478,479,480,481,482,483,484,485,486,487
Seq#:12; Line(s) 488,489,490,491,492,493,494,495,496,497,498,499,500,501
Seq#:12; Line(s) 502,503,504,505,506,507,508,509,510,511,512
Seq#:13; Line(s) 513,514,515,516,517,518,519,520,521,522,523,524,525,526
```



1600

RAW SEQUENCE LISTING DATE: 02/10/2003

PATENT APPLICATION: US/09/147,405B TIME: 13:15:33

Input Set : A:\Guss405.app

Output Set: N:\CRF4\02102003\I147405B.raw

```
3 <110> APPLICANT: Guss, Bengt
            Nilsson, Martin
     5
             Frykberg, Lars
             Flock, Jan-Ingmar
         Lindberg, Martin
     9 <120> TITLE OF INVENTION: Fibrinogen Binding Protein Originating from
     10 Coagulase-Negative Staphylococcus
     12 <130> FILE REFERENCE: guss 09/147405
     14 <140> CURRENT APPLICATION NUMBER: 09/147405B
C--> 15 <141> CURRENT FILING DATE: 1999-04-11
     17 <150> PRIOR APPLICATION NUMBER: PCT/SE97/10191
     18 <151> PRIOR FILING DATE: 1997-06-18
     20 <150> PRIOR APPLICATION NUMBER: SE 9602496-3
                                                              Does Not Comply
     21 <151> PRIOR FILING DATE: 1996-06-20
                                                          Corrected Diskette Needed
     23 <160> NUMBER OF SEQ ID NOS: 15
     25 <170> SOFTWARE: PatentIn Ver. 2.0
```

ERRORED SEQUENCES

										ロレニ						
927	<210)> SI	EQ II	ON C	: 15				\cap	4		•				
928	<213	L> LF	ENGT	H: 10	92				V							
929	<212	2> T	PE:	PRT					0.	,						
930	<213	3> OI	RGAN	ISM:	Stap	ohylo	ococo	cus e	epide	ermio	dis					
				VCE:												
933	Met	Ile	Asn	Lys	Lys	Asn	Asn	Leu	Leu	Thr	Lys	Lys	Lys	Pro		Ala
934	1				5					10					15	
936	Asn	Lys	Ser	Asn	Lys	Tyr	Ala	Ile	Arg	Lys	Phe	Thr	Val			Ala
937				20					25					30		
939	Ser	Ile	Val	Ile	Gly	Ala	Thr	Leu	Leu	Phe	Gly	Leu	Gly	His	Asn	Glu
940			35					40					45			
942	Ala	Lys	Ala	Glu	Glu	Asn		Val	Gln	Asp	Val		Asp	Ser	Asn	Thr
943		50					55					60				
945	Asp	Asp	Glu	Leu	Ser		Ser	Asn	Asp	Gln		Ser	Asp	Glu	Glu	
946	65					70					75					80
948	Asn	Asp	Val	Ile	Asn	Asn	Asn	Gln	Ser		Asn	Thr	Asp	Asp		Asn
949					85					90					95	
951	Gln	Ile	Ile	Lys	Lys	Glu	Glu	Thr		Asn	Tyr	Asp	Gly		Glu	Lys
952				100					105					110		
954	Arg	Ser	Glu	Asp	Arg	Thr	Glu	Ser	Thr	Thr	Asn	Val		Glu	Asn	Glu
955			115					120					125			
957	Ala	Thr	Phe	Leu	Gln	Lys	Thr	Pro	Gln	Asp	Asn	Thr	His	Leu	Thr	Glu
958		130					135					140				

DATE: 02/10/2003

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/147,405B TIME: 13:15:33

Input Set : A:\Guss405.app
Output Set: N:\CRF4\02102003\I147405B.raw

960														_	_	
		Glu	Val	Lys			Ser	Ser	Val	Glu		Ser	Asn	Ser	Ser	
	145					150					155					160
963	Asp	Thr	Ala	Gln		Pro	Ser	His	Thr		Ile	Asn	Arg	Glu		Ser
964					165					170					175	
966	Val	Gln	Thr		Asp	Asn	Val	Glu	Asp	Ser	His	Val	Ser		Phe	Ala
967				180					185					190		
969	Asn	Ser	Lys	Ile	Lys	Glu	Ser		Thr	Glu	Ser	Gly		Glu	Glu	Asn
970			195					200					205			
972	Thr	Ile	Glu	Gln	Pro	Asn	Lys	Val	Lys	Glu	Asp	Ser	Thr	Thr.	Ser	Gln
973		210					215					220				
975	Pro	Ser	Gly	Tyr	Thr		Ile	Asp	Glu	Lys		Ser	Asn	Gln	Asp	
	225					230					235					240
978	Leu	Leu	Asn	Leu	Pro	Ile	Asn	Glu	Tyr		Asn	Lys	Ala	Arg		Leu
979					245					250					255	
981	Ser	Thr	Thr		Ala	Gln	Pro	Ser		Lys	Arg	Val	Thr		Asn	Gln
982				260					265					270		
	Leu	Ala		Glu	Gln	Gly	Ser		Val	Asn	His	Leu		Lys	Val	Thr
985			275					280	_	_	_		285		- 1	_
	Asp		Ser	Ile	Thr	Glu	Gly	Tyr	Asp	Asp	Ser		GLy	Val	ile	Lys
988		290					295		_	_		300		~ 1		_
		His	Asp	Ala	Glu		Leu	Ile	Tyr	Asp		Thr	Phe	GLu	vaı	
	305	_		_	_	310	_	an l		m1	315	-	- 1	70	. .	320
	Asp	Lys	Val	Lys		GLy	Asp	Thr	Met		Val	Asp	TTE	Asp		Asn
994		-	_	_	325	_		_	~	330	m)	~ 1 .	D	т	335	T
	Thr	Val	Pro		Asp	Leu	Thr	Asp		Phe	Thr	тте	Pro	ьуs 350	тте	ьys
997	_	_	~	340	61	- 1 -	T1 -	7.1 -	345	C1	mb	m	7.00		T	7.00
999	-	Asn		Gly	Glu	Ile	Ile		Thr	Gly	Thr	Tyr		Asn	Lys	Asn
999 100	o -		355	Gly				360	Thr				365	Asn		
999 100 100) 2 Ly:	s Glr	355 1 Ile	Gly			: Phe	360 Thr	Thr			Asp	365 Lys	Asn		Asn ı Asn
999 100 100 100) 2 Ly: 3	s Glr 370	355 n Ile)	Gly 5 Thr	Туг	Thr	: Phe	360 Thr	Thr Asp	э Туг	r Val	Asp 380	365 Lys	Asn 5 Tyi	c Gl	ı Asn
999 100 100 100 100	O 2 Ly: 3 5 Ile	s Glr 370 e Lys	355 n Ile)	Gly 5 Thr	Туг	Thr Lys	Phe 375 Leu	360 Thr	Thr Asp	э Туг	r Val	Asp 380 Asp	365 Lys	Asn 5 Tyi	c Gl	a Asn
999 100 100 100 100	O Ly: 3 Ile 6 38!	s Glr 370 e Lys	355 n Ile) s Ala	Gly Thr	Tyr Leu	Thr Lys 390	Phe 375 Let	360 Thr	Thr Asp Ser	туз Туз	val	Asp 380 Asp	365 Lys Lys	Asn S Tyr S Ser	c Glu	Asn Val 400
999 100 100 100 100 100	O Ly: 3	s Glr 370 e Lys	355 n Ile) s Ala	Gly Thr	Tyr Leu Thr	Thr Lys 390 Lys	Phe 375 Let	360 Thr	Thr Asp Ser	Tyi Tyi L Glu	Val Ile 395 Tyr	Asp 380 Asp	365 Lys Lys	Asn S Tyr S Ser	Gli Lys a Lei	Asn Val 400 Ser
999 100 100 100 100 100 100	O 2 Ly: 3 5 Ile 6 38! 8 Pre	S Glr 370 E Lys 5 D Asr	355 n Ile) s Ala n Asr	Gly Thr His	Tyr Leu Thr 405	Thr Lys 390 Lys	Phe 375 Lev	360 Thr Thr	Thr Asp Ser Val	Tyi Tyi Glu 410	Val Ile 395 I Tyr	Asp 380 Asp Lys	365 Lys Lys Thr	Asn S Tyr S Ser	Glace Lys Lea Lea 415	Asn Val 400 Ser
999 100 100 100 100 100 100 101	O Lys 3 S Ile 6 38! 8 Pro 9 Se:	S Glr 370 E Lys 5 D Asr	355 n Ile) s Ala n Asr	Gly Thr His Asr	Tyr Leu Thr 405	Thr Lys 390 Lys	Phe 375 Lev	360 Thr Thr	Thr Asp Ser Val	Tyi Tyi Glu 410	Val Ile 395 I Tyr	Asp 380 Asp Lys	365 Lys Lys Thr	Asn Type Separate Alam	Glu Lys a Leu 415 a Glu	Asn Val 400 Ser
999 100 100 100 100 100 100 101 101	O Lys 3	S Glr 370 E Lys 5 D Asr	355 n Ile) s Ala n Asr	Gly Thr His Asn Lys 420	Tyr Leu Thr 405	Thr 1 Lys 390 Lys 5	Phe 375 Lev Lev Lev	360 Thr Thr Asp	Thr Asp Val	Tyr Tyr L Glu 410 1 Tyr	r Val c Ile 395 1 Tyr) c Glr	Asp 380 Asp Lys	365 Lys) D Lys Thr	Asn S Tyr S Ser Ala Asr Asr 430	c Gluck Lys Leu 419 Gluck Gluc	Asn S Val 400 Ser Asn
999 100 100 100 100 100 100 101 101	D Ly: Ly: S Ile S 38: Pro 9 1 Se: 2 4 Arc	S Glr 370 E Lys 5 D Asr	355 n Ile) s Ala n Asr L Asr	Gly Thr His Asr 420 Asr	Tyr Leu Thr 405	Thr 1 Lys 390 Lys 5	Phe 375 Lev Lev Lev	360 Thr Thr Asp Val	Thr Asp Val Glu 425	Tyr Tyr L Glu 410 1 Tyr	r Val c Ile 395 1 Tyr) c Glr	Asp 380 Asp Lys	365 Lys) Lys Thr Pro	Asn S Tyr S Ser Ala Asr 430 Thr	c Gluck Lys Leu 419 Gluck Gluc	Asn Val 400 Ser
999 100 100 100 100 100 100 101 101 101	O Ly: 3	S Glr 37(E Lys D Asr C Val	355 n Ile) s Ala n Asr l Asr 2 Ala 435	Gly Thr His Asr 420 Asr	Tyr Leu Thr 405 Thr	Thr 1 Lys 390 Lys 5 Ile	Phe 375 Lev Lev Thr	360 Thr Thr Asp Val	Thr Asp Val Glu 425	Tyr Glu 410 Tyr Thr	Yal Yal Yal Yal Yal Yal Yal Yal	Asp 380 Asp Lys Arq	365 Lys D Lys Thr Pro	Asn S Typ S Sep Ala Asr Asr Ala Asr 430 This	c Gluck Lys 419 Gluck Gl	Asn Val 400 Ser Asn Asn
999 100 100 100 100 100 100 101 101 101	O	s Glr 370 e Lys 5 o Asr val Thr	355 n Ile) s Ala n Asr L Asr 435 Val	Gly Thr His Asr 420 Asr	Tyr Leu Thr 405 Thr	Thr 1 Lys 390 Lys 5 Ile	Phe 375 Lev D S Lev Thr	360 Thr Thr Asp Val Met 440 Tyr	Thr Asp Val Glu 425	Tyr Glu 410 Tyr Thr	Yal Yal Yal Yal Yal Yal Yal Yal	Asp 380 Asp Lys Aro	365 Lys Lys Thr Pro Asp 445 Arg	Asn S Typ S Sep Ala Asr Asr Ala Asr 430 This	c Gluck Lys 419 Gluck Gl	Asn S Val 400 Ser Asn
999 100 100 100 100 100 101 101 101 101	O Ly: 3	S Glr 370 E Lys D Asr Val Thr 450	355 n Ile) s Ala n Asr l Asr 2 Ala 435 c Val	Gly Thr His Asn Lys 420 Asn Glu	Tyr Leu Thr 405 Thr	Thr 1 Lys 390 1 Lys 1 Ile 1 Glr	Phe 375 Level Level Three Three 455	360 e Thr in Thr in Asp in Val in Met 440 e Tyr	Thr Asp Ser Val Glu 425 Phe	Tyr Glu 410 Tyr Tyr Tyr Thr	Value	Asp 380 Asp 5 Lys 1 Arg 1 116 460	365 Lys Lys Thr Pro Asp 445 Aro	Asn S Typ S Sep Ala Asr 430 Thi Typ Typ	E Gluck Lys 419 (1997) Charles Lys Charles Cha	Asn Val 400 Ser Asn Asn Asn Asn Ala
999 100 100 100 100 100 101 101 101 101	O Ly:	S Glr 370 E Lys D Asr Thr 450 S Gli	355 n Ile) s Ala n Asr l Asr 2 Ala 435 c Val	Gly Thr His Asn Lys 420 Asn Glu	Tyr Leu Thr 405 Thr	Thr 1 Lys 390 2 Lys 5 Ile 6 Glr 1 Thr	Phe 375 Lev Constitution Service Thrush Service 455	360 e Thr in Thr in Asp in Val in Met 440 e Tyr	Thr Asp Ser Val Glu 425 Phe	Tyr Glu 410 Tyr Tyr Tyr Thr	Yal File F	Asp 380 Asp Lys Aro 116 460 Asp	365 Lys Lys Thr Pro Asp 445 Aro	Asn S Typ S Sep Ala Asr 430 Thi Typ Typ	E Gluck Lys 419 (1997) Charles Lys Charles Cha	Asn S Val 400 Ser Asn Asn S Asn T Ala
999 100 100 100 100 100 101 101 101 101	O Ly:	S Glr 370 E Lys D Asr Thr 450 S Glu	355 n Ile) s Ala n Asr L Asr 2 Ala 435 Val) n Thi	Gly Thr His Asn Lys 420 Asr Glu Asr	Tyr Leu Thr 405 Thr Leu Glr	Thr 390 Lys 11e 1 Glr Asr 470	Phe 375 Lev) S Lev Thr Ser 455 116	360 e Thr i Thr i Asp val Met 440 e Tyr	Thr Asp Ser Val Glu 425 Phe The	Tyr Glu 410 410 Tyr E Thr	Yal File F	Asp 380 Asp 5 Lys 1 Aro 1 116 460 7 Asp	365 D Lys D Lys Thr Pro Asp 445 Aro	Asn S Separate Alamate	E Gluck Lys 419 Char Lys Char Ser	Asn S Val 400 Ser Asn Asn S Asn Thr 480
999 100 100 100 100 100 101 101 101 101	O Ly:	S Glr 370 E Lys D Asr Thr 450 S Glu	355 n Ile) s Ala n Asr L Asr 2 Ala 435 Val) n Thi	Gly Thr His Asn Lys 420 Asr Glu Asr	Tyr Leu Thr 405 Thr Leu Glr Val	Thr 1 Lys 390 2 Lys 3 Ile 4 Glr 4 Asr 470 5 Thr	Phe 375 Lev) S Lev Thr Ser 455 116	360 e Thr i Thr i Asp val Met 440 e Tyr	Thr Asp Ser Val Glu 425 Phe The	Type Thomas Asia	Value	Asp 380 Asp 5 Lys 1 Aro 1 116 460 7 Asp	365 D Lys D Lys Thr Pro Asp 445 Aro	Asn S Separate Alamate	E Gluck Lys 415 August 19 Cluck Lys Car Ser	Asn S Val 400 Ser Asn Asn Ala Thr 480 Asn
999 100 100 100 100 100 101 101 101 101	O Ly: O Ly: O Ly: O Ly: O Ly: O Ly: O Ly:	S Glr 370 E Lys D Asr Val Thr 450 S Glu E Ile	355 Alan Asr Ala 435 Val	Gly Thr His Asr 420 Asr Glu Asr	Tyr Leu Thr 405 Thr Leu Glr Val	Thr 390 Lys Thr Glr Asr 470 Thr	Phe 375 Lev Constitution Service Thrush Service 455 Ile	360 Thr Thr Asp Val Met 440 Tyr Ser Ser	Thr Asp Ser Val Glu 425 Phe Gly Gly	Type Thomas Asir	Value	Asp 380 Asp Lys Arg 1160 460 Asp E Lys	365 Lys Lys Thr Pro Asp 445 Arg Graduate Graduat	Asn S Typ S Sep Ala Asi A30 Thi G Typ G G Typ G G G G G G G G G G G G G G G G G G G	Let Lys 41! Glu CLys Ser Ser 49!	Asn S Val 400 Ser Asn Asn Ala Thr 480 Asn 5
999 100 100 100 100 100 101 101 101 101	2 Ly: 3	S Glr 370 E Lys D Asr Val Thr 450 S Glu E Ile	355 Alan Asr Ala 435 Val	Gly Thr His Asr 420 Asr Glu Asr Asr Asr	Tyr Leu 405 Thr Leu 1 Clr 1 Val 2 Ser 485 2 Asp	Thr. 390 Lys Lys Ile Glr Asr 470	Phe 375 Lev Constitution Service Thrush Service 455 Ile	360 Thr Thr Asp Val Met 440 Tyr Ser Ser	Thr Asp Ser Val Glu 425 Phe Gly Lys	Tyi Glu 410 1 Tyi Thi Asi 490 2 Tyi	Value	Asp 380 Asp Lys Arg 1160 460 Asp E Lys	365 Lys Lys Thr Pro Asp 445 Arg Graduate Graduat	Asn S Typ S Sep Ala Asi A30 Thi G Typ G G Typ G G G G G G G G G G G G G G G G G G G	Let Lys Let 41! Glu CLys C Ser Y Ser 49! Lys Ty:	Asn S Val 400 Ser Asn Asn Ala Thr 480 Asn
999 100 100 100 100 100 101 101 101 101	2 Ly: 3	S Glr 370 E Lys D Asr Val Thr 450 S Glu E Lys D Asr	355 Alan Asr Ala 435 Val	Gly Thr His Asr Asr Glu Asr Asr From Asr	Tyr Leu Thr 405 Thr Leu Glr Val Ser 485 Asp	Thr 390 Lys Thr Glr Asr 470 Thr Ser	Phe 375 Lev Control Lev Thrush Ser Control Lev Control	360 Thr Thr Asp Val Met 440 Tyr Ser E Ser	Thr Asp Ser Val Glu 425 Phe Gly Lys Jle 505	Tyn Glu 410 Tyn Thu Asr Asr 490 Tyn Tyn Tyn Tyn Tyn Tyn Tyn Ty	Value	Asp 380 Asp Lys Arg Asp 460 Asp Lev Asp Lys	365 Lys Lys Lys Thr Pro Asr 445 Arc Collins Val	Asn S Typ S Sep Asn Asn Asn Typ Asn Asn Asn Asn Asn Asn Asn As	Let Lys Let 41! Glu Clys Lys Ser 49! 49! Ty:	Asn S Val 400 Ser Asn Asn Ala Thr 480 Asn Glu
999 100 100 100 100 100 101 101 101 101	2 Ly: 3	S Glr 370 E Lys D Asr Val Thr 450 S Glu E Lys D Asr	355 n Ile) s Ala n Asr Asr Ala 435 val) n Thr e Asr	Gly Thr His Asr 420 Asr Asr Asr Asr Asr Asr Asr As	Tyr Leu Thr 405 Thr Leu Glr Val Ser 485 Asp	Thr 390 Lys Thr Glr Asr 470 Thr Ser	Phe 375 Lev Control Lev Thrush Ser Control Lev Control	360 e Thr i Thr i Asp Val Met 440 e Tyr i Ser e Ile	Thr Asp Ser Val 425 Phe Gly Lys Gly Gly Gly Gly Gly Gly	Tyn Glu 410 Tyn Thu Asr Asr 490 Tyn Tyn Tyn Tyn Tyn Tyn Tyn Ty	Value	Asp 380 Asp Lys Arg Asp 460 Asp Lev Asp Lys	365 Lys Lys Lys Thr Pro Asr 445 Arc Collins Val	Asn S Sep Ala Asr Ala Asr Ala Asr Ala Color Asr Ala Color Asr Asr Asr Asr Asr Asr Asr A	Let Lys Let 41! Glu Clys Lys Ser 49! 49! Ty:	Asn S Val 400 Ser Asn Asn Ala Thr 480 Asn 5
999 100 100 100 100 100 101 101 101 101	2 Ly: 3	S Glr 370 E Lys D Asr Val Thr 450 S Glu D Asr Val	355 n Ile i s Ala n Asr l Asr l Asr val i Thi e Asr l Thi 515	Gly Thr His Asr 420 Asr Asr Asr Asr Asr Asr	Tyr Leu 405 Thr Leu 1 Glr 1 Val 2 Ser 485 2 Asp	Thr 390 Lys Lys Thr Asr 470 Thr Ser Asp	Phe 375 Lev) S Lev Thr Ser 455 Ile (455) C Ile Asr	360 e Thr i Thr i Asp Val Met 440 e Tyr i Ser e Ser Arg	Thr Asp Ser Val 425 Phe Gly Lys Gly Gly Glr	Tyi Tyi Glu 410 Tyi Tyi Asr Asr 490 Tyi Leu	Value	Asp 380 Asp Lys Arg 116 460 Asp 5 Lys Tyr Asr	365 Lys Lys Lys Thr Pro Asr 445 Co Glu Ser Asr 525	Asn So Typ So Sep Asn Asn Asn Graph G	Let Lys Asp 499 Ty: On Asp	Asn S Val 400 Ser Asn Asn Ala Thr 480 Asn Glu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/147,405B

DATE: 02/10/2003 TIME: 13:15:33

Input Set : A:\Guss405.app
Output Set: N:\CRF4\02102003\I147405B.raw

												- 40				
1033		530					535		_	_		540	 1	~1	~ 1	m1
1035	Ser	Lys	Tyr	Asp	Pro		Lys	Asp	Asp	Tyr		Thr	lle	GIn	GIn	Thr
1036	545					550					555					560
1038	Val	Thr	Met	Gln	Thr	Thr	Ile	Asn	Glu		Thr	Gly	Glu	Phe		Thr
1039					565					570					575	
1041	Ala	Ser	Tyr	Asp	Asn	Thr	Ile	Ala	Phe	Ser	Thr	Ser	Ser	Gly	Gln	Gly
1042			-	580					585					590		
1044	Gln	Glv	Asp	Leu	Pro	Pro	Glu	Lys	Thr	Tyr	Lys	Ile	Gly	Asp	Tyr	Val
1045		2	595					600		_	-		605			
1047	Trp	Glu	Asp	Val	Asp	Lvs	Asp	Gly	Ile	Gln	Asn	Thr	Asn	Asp	Asn	Glu
1048	1-	610	-		-	-	615	-				620				
1050	Lvs		Leu	Ser	Asn	Val	Leu	Val	Thr	Leu	Thr	Tyr	Pro	Asp	Gly	Thr
1051				502		630					635	_		•	-	640
1053	Sar	T.vs	Ser	Val	Ara		Asp	Glu	Asp	Glv	Lvs	Tvr	Gln	Phe	Asp	Glv
1054	DCI	шуз	JCI	VUL	645	1111	1101	010	110 F	650	-1-	-1-			655	-
1054	T 011	Tuc	7 cn	G1 v		Thr	Tur	T.vc	Tle		Phe	Glu	Thr	Pro		Glv
	ьeu	гуу	ASII	660	пеп	1111	тут	цуз	665	1111	1110	014		670	014	011
1057 1059	т	mb	Dmo		T 0.11	T + + C	uic	Sor		Thr	Aen	Dro	Δla		Asn	Ser
	туг	THE		THE	ьеи	гуу	птр	680	СТУ	1111	L 311	110	685	пси	1101	CL
1060	61	61	675	0	77 7	M	77-7		т1а	7 cn	C1.,	Cln		Nen	Mot	Thr
1062	GLu		Asn	Ser	vaı	Trp		THE	тте	ASII	СТУ		Asp	ASP	met	1111
1063		690	_	~1	10.1		695	m1	D	T	Ф	700	T 011	C1.,	7 cn	ጥ፡፡፡
1065		Asp	Ser	GLY	Pne		GIN	Thr	Pro	ьуѕ		ser	ьеи	GTA	ASII	720
1066			_	_		710	_	_	0 1	- 1	715	G1	7	7)	C1	
1068	Val	Trp	Tyr	Asp		Asn	Lys	Asp	GIY		GIN	GTÀ	Asp	ASP		гуз
1069					725	_		_,	_	730		6 1	70	C1	735	т1.
1071	Gly	Ile	Ser		Val	Lys	Val	Thr		Lys	Asp	Glu	Asn		Asn	TTE
1072				740					745		_	_	~ 1	750	_	
1074	Ile	Ser		Thr	Thr	Thr	Asp		Asn	GLy	Lys	Tyr		Phe	Asp	Asn
1075			755					760					765	_		
1077	Leu	Asn	Ser	Gly	Asn	Tyr		Val	His	Phe	Asp		Pro	Ser	GLy	Met
1078		770				•	775					780				_
1080	Thr	Gln	Thr	Thr	Thr	Asp	Ser	Gly	Asp	Asp		Glu	Gln	Asp	Ala	
1081						790					795					800
1083	Gly	Glu	Glu	Val	His	Val	Thr	Ile	Thr	Asp	His	Asp	Asp	Phe		Ile
1084					805					810					815	
1086	Asp	Asn	Gly	Tyr	Tyr	Asp	Asp	Glu	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp
1087				820					825					830		
1089	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp
1090			835					840					845			
1092	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp
1093		850					855					860				
1095	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp
1096		-		_		870					875					880
1098	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp
1099		•		•	885	_		_		890					895	
1101		Asp	Ser	Asp		Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp
1102		1-		900		-		-	905	-		-		910		
1104	Ser	Asp	Ser		Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp	Ser	Asp
1105			915			- 1.		920		-		-	925	-		-

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/147,405B

DATE: 02/10/2003 TIME: 13:15:33

Input Set : A:\Guss405.app
Output Set: N:\CRF4\02102003\I147405B.raw

	1107 1108	Ser	Asp 930	Ser	Asp	Ser	Asp	Ser 935	Asp	Ser	Asp	Ser	Asp 940	Ser	Asp	Ser	Asp
	1110 1111		Asp	Ser	Asp	Ser	Asp 950	Ser	Asp	Ser	Asp	Ser 955	Asp	Ser	Asp	Ser	Asp 960
	1113 1114	Ser	Asp	Ser	Asp	Ser 965	Asp	Ser	Asp	Ser	Asp 970	Ser	Asp	Ser	Asp	Ser 975	Asp
	1116 1117	Ser	Asp	Ser	Asp 980	Ser	Asp	Ser	Asp	Ser 985	Asp	Ser	Asp	Ser	Asp 990	Ser	Asp
	1119 1120	Ser	Asp	Ser 995	Asp	Ser	Asp	Ser	Asp 1000		Asp	Ser		Ser L005	Asp	Ser	Asp
	1122 1123		Asp 1010	Ser	Val	Ser		Ser L015	Asp	Ser	Asp		Asp 1020	Ser	Asp	Ser	Gly
E>	1125 1126				Asp		Asp 1030	Ser	Asp	Ser		Ser L035	Asp	Asn	Asp		Asp L040
	1128 1129					Ser L045	Asp	Lys	Ser		Lys 1050	Asp	Lys	Leu		Asp 1055	Thr
	1131 1132	_			1060					1065					1070		
	1134 1135		:	1075		Gly	Ala	Leu	Leu 1080		Gly	Lys		Arg 1085	Lys	Asn	Arg
	1137 1138	_	Asn 1090	Lys	Asn												

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/147,405B

DATE: 02/10/2003 TIME: 13:15:34

Input Set : A:\Guss405.app

Output Set: N:\CRF4\02102003\I147405B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

```
Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39
Seg#:2; Line(s) 40,41,42,43,44,45,46,47,48,49,50,51
Seq#:3; Line(s) 52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71
Seq#:3; Line(s) 72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90
Seq#:4; Line(s) 91,92,93,94,95,96,97,98,99,100,101,102
Seq#:5; Line(s) 103,104,105,106,107,108,109,110,111,112,113,114
Seq#:6; Line(s) 115,116,117,118,119,120,121,122,123,124,125,126
Seq#:7; Line(s) 127,128,129,130,131,132,133,134,135,136,137,138
Seq#:8; Line(s) 139,140,141,142,143,144,145,146,147,148,149,150
Seq#:9; Line(s) 151,152,153,154,155,156,157,158,159,160,161,162
Seq#:10; Line(s) 163,164,165,166,167,168,169,170,171,172,173,174,175,176
Seq#:10; Line(s) 177,178,179,180,181,182,183,184,185,186,187,188,189,190
Seq#:10; Line(s) 191,192,193,194,195,196,197,198,199,200,201,202,203,204
Seq#:10; Line(s) 205,206,207,208,209,210,211,212,213,214,215,216,217,218
Seq#:10; Line(s) 219,220,221,222,223,224,225,226,227,228,229,230,231,232
Seq#:10; Line(s) 233,234,235,236,237,238,239,240,241,242,243,244,245,246
Seq#:10; Line(s) 247,248,249,250,251,252,253,254,255,256,257,258,259,260
Seq#:10; Line(s) 261,262,263,264,265,266,267,268,269,270,271,272,273,274
Seq#:10; Line(s) 275,276,277,278,279,280,281,282,283,284,285,286,287,288
Seq#:10; Line(s) 289,290,291,292,293,294,295,296,297,298,299,300,301,302
Seq#:10; Line(s) 303,304,305,306,307,308,309,310,311,312,313,314,315,316
Seq#:10; Line(s) 317,318,319,320,321,322,323,324
Seq#:11; Line(s) 325,326,327,328,329,330,331,332,333,334,335,336,337,338
Seq#:11; Line(s) 339,340,341,342,343,344,345,346,347,348,349,350,351,352
Seq#:11; Line(s) 353,354,355,356,357,358,359,360,361,362,363,364,365,366
Seq#:11; Line(s) 367,368,369,370,371,372,373,374,375,376,377,378,379,380
Seq#:11; Line(s) 381,382,383,384,385,386,387,388,389,390,391,392,393,394
Seq#:11; Line(s) 395,396,397,398,399,400,401,402,403,404,405,406,407,408
Seq#:11; Line(s) 409,410,411,412,413,414,415,416,417,418,419,420,421,422
Seq#:11; Line(s) 423,424,425,426,427,428,429,430,431,432,433,434,435,436
Seq#:11; Line(s) 437,438,439,440,441,442,443,444,445
Seq#:12; Line(s) 446,447,448,449,450,451,452,453,454,455,456,457,458,459
Seq#:12; Line(s) 460,461,462,463,464,465,466,467,468,469,470,471,472,473
Seq#:12; Line(s) 474,475,476,477,478,479,480,481,482,483,484,485,486,487
Seq#:12; Line(s) 488,489,490,491,492,493,494,495,496,497,498,499,500,501
Seq#:12; Line(s) 502,503,504,505,506,507,508,509,510,511,512
Seq#:13; Line(s) 513,514,515,516,517,518,519,520,521,522,523,524,525,526
Seq#:13; Line(s) 527,528,529,530,531,532,533,534,535,536,537,538,539,540
Seq#:13; Line(s) 541,542,543,544,545,546,547,548,549,550,551,552,553,554
Seq#:13; Line(s) 555,556,557,558,559,560,561,562,563,564,565,566,567,568
Seq#:13; Line(s) 569,570,571,572,573,574,575,576,577,578,579,580,581,582
Seq#:13; Line(s) 583,584,585,586,587,588,589,590,591,592,593,594,595,596
```

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/147,405B

DATE: 02/10/2003 TIME: 13:15:34

Input Set : A:\Guss405.app

Output Set: N:\CRF4\02102003\I147405B.raw

Seq#:13; Line(s) 597,598,599,600,601,602,603,604,605,606,607,608,609,610
Seq#:13; Line(s) 611,612,613,614,615,616,617,618,619,620,621,622,623,624
Seq#:13; Line(s) 625,626,627,628,629,630
Seq#:14; Line(s) 631,632,633,634,635,636,637,638,639,640,641,642,643,644
Seq#:14; Line(s) 645,646,647,648,649,650,651,652,653,654,655,656,657,658
Seq#:14; Line(s) 659,660,661,662,663,664,665,666,667,668,669,670,671,672
Seq#:14; Line(s) 673,674,675,676,677,678,679,680,681,682,683,684,685,686
Seq#:14; Line(s) 687,688,689,690,691,692,693,694,695,696,697,698,699,700

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/147,405B

DATE: 02/10/2003 TIME: 13:15:34

Input Set : A:\Guss405.app

Output Set: N:\CRF4\02102003\I147405B.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0 L:1126 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:15